

PROCESSING DATE--18SEP70 UNCLASSIFIED 3/3 015 CIRC ACCESSION NO--APO100890 ABSTRACT/EXTRACT--TREATING THE APPROPRIATE AMINES WITH ALKYL HALIDES GAVE THE FOLLOWING QUATERNARY SALTS: (CHO-RCSUB6HSUB4SCHSUB2CHSUB2NRSUB2RPRIME1) PLUSXMINUS (NRSUB2 EQUALS HEXAMETHYLENIMINO) (R. RPRIMEL, AND X SHOWN): ME, CSUB7HSUB15, BR, ME CSUB10HSUB21, BR, ME, CHSUB2COSUB2CSUB7HSUB15, CL, ME, CHSUB2COSUB2CSUB10HSUB21, CL, MESUB36, CSUB6HSUB13, BR, MESUB3C, CSUB7HSUB15, BR. MESUB3C, PHCNSUB2. CL. THE FOLLOWING RHO-RCSUB6HSUB4SCHSUB2CHSUB2OCHSUB2CHSUB2NRSUB2RPRIME1 PLUSXMINUS: ME, CSUB7HSUB15, BR, ME, CSUB10HSUB21, BR, ME, CHSUB3CGSUB2C\$UB10HSUB21, CL, ME, CLSUB12HSUB25, BR, ET, CSUB7HSUB15, BR, ET, CSUB10HSUB21, BR, MEPRCH, CSUB5HSUB4, BR, MEPRCH, CSUB6HSUB13, BR, MEPRCH, PHCHSUB2, CL, MEPRCH, CSUB7HSUB15, BR, MEPRCH, CSUB8HSUB17, BR, MEPRCH, CSUB10HSUB21, BR. AND MEPRCH. CHSUB2COSUB2 CSUB7HSUB15, CL. BACTERICIDAL TEST DATA WERE TABULATED, THEY WERE RELATIVELY NONTOXIC TO ANIMALS AND RATHER ACTIVE AGAINST MICROORGANISMS, AND MOST ACTIVE WERE THE MEMBERS WITH DECYL SUBSTITUENTS. UNCLASSIFIED. ATTENTAL CONTRACTOR TRANSPORTED IN CONTRACTOR CONTRACTO

PROCESSING DATE--13NUV70 UNCLASSIFIED . 1/2 009 TITLE--DETERMINATION OF THE HEAT OF HYDRATION OF CEMENT -U-

AUTHOR-(04)-ZASEDATELEV, I.B., MAMEDOV, F.YU., MISHIN, G.V., KUZNECHENKO,

YU.L.

COUNTRY OF INFO--USSR

SOURCE--USSR 263,221

REFERENCE-OTKRYTIYA, IZOBRET., PROM. OBRAZTSY, TOVARNYE ZNAKI 1970,

DATE PUBLISHED--04FEB70

SUBJECT AREAS--MATERIALS

TOPIC TAGS--CEMENT, PATENT, HEAT OF HYDRATION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REGLIFRAME--3002/1475

STEP NO--UK/0482/70/000/000/0000/0000

CIRC ACCESSION NU--AA0128874

UNCLASSIFIED TO BE THE PROPERTY OF THE PROPERT

PROCESSING DATE--13NOV70 UNCLASSIFIED 2/2 009 CIRC ACCESSION NO--AA0128874 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT: THE HEAT OF HYDRATION OF CEMENT WAS DETD. BY CALORIMETRIC MEASUREMENTS IN AN AUTOCLAVE, USING A DIFFERENTIAL CALORIMETER CONTG. REF. SUBSTANCES AND THE SUBSTANCES TO BE ANALYZED. TO INCREASE THE TEMP. RANGE OF THE ANAL., THE AUTOCLAVE IS FILLED WITH GAS, SUCH AS N, AT A PRESET PRESSURE AND THE TEMP. OF THE MEDIUM IN THE AUTOCLAVE IS MAINTAINED AT A LEVEL BELOW THE B. P. OF WATER AT THE PRESET PRESSURE. THE DIFFERENCE IN THE CONSUMPTION OF EUEC. ENERGY EXPENDED WHILE HEATING THE SUBSTANCE BEING AHALYZED ACCORDING TO A SET PROGRAM AND WHILE MAINTAINING THE TEMP. OF THE REF. CALORIMETRIC SUBSTANCE AT THE TEMP. OF THE SUBSTANCE UNDER ANAL. IS DETO. THE UNKNOWN QUANTITY IS DETD. FROM THE DIFFERENCE IN THESE TEPLOPHOEKT ALL UNION SCIENTIFIC FACILITY: CONSUMPTIONS. RESEARCH AND DESIGN INSTITUTE. -UNCLASSIFIED

PRUCESSING DATE--230CT70 UNCLASSIFIED 009 1/2 TITLE-DEWATERING OF PETROLEUMS FROM THE SANGACHALY DUVANNYI SEA DEPOSIT -U-

AUTHOR-1041-SULEIMANOV, A.B., MAMEDOV, KH.M., MAMEDOV, G.Z., GUMBATOV,

COUNTRY OF INFO--USSR

SOURCE--AZERB. NEFT. KHOZ. 1970, (11, 32-4

DATE PUBLISHED ---- 70

SUBJECT AREAS--EARTH SCIENCES AND OCEANOGRAPHY, MATERIALS

TOPIC TAGS--PETROLEUM DEPOSIT, PETROLEUM DEHYDRATION, CRUDE GIL, GEOGRAPHIC LOGATION, MOLECULAR WEIGHT, PETROLEUM DEMULSIFICATION/(U)NCHK PETROLEUM DEMULSIFIER

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3001/2071

STEP NO--UR/0487/70/000/001/0032/0034

CIRCUACCESSION:NO--AP0127444

UNCLASSIFIED

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USSR

UDC 543.242.3:546.655

MAMEDOV. I. A., and NABIYEV, M. N., Department of Analytical Chemistry, Azerbaydzhan Institute of Petroleum and Chemistry imeni M. Azizbekov

"Arsenate-Iodometric Determination of Cerium (IV) and Aluminum When Present Together"

Ivanovo, Izvestiya Vysshikh Uchebnykh Zavedeniy, Khimiya i Khimicheskaya Tekhnologiya, Vol 13, No 12, 1970, pp 1718-1719

Abstract: A procedure for arsenate-iodometric determination of cerium (IV) and aluminum, when present together, is described. The procedure is reduced to precipitating these metals as their arsenates, subsequent dissolution of the precipitates in strong acid, and iodometric titration of the liberated arsenous acid by sodium thiosulfate solution in the presence of benzene. The analysis takes 30-35 minutes and is fairly accurate. Two variants of determinations are described, and analytical data are given for a wide range of concentrations.

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USSR

HAMEDOV. K., and RAKHIMKULOV, R. YU., Institute of Botany, Academy of Sciences Turkmen SSR

"Review of the Literature on the Effect of Tonizing Radiation and Chemical Mutagens on Plants III"

Ashkhabad, Izvestiya Akademii Nauk Turkmenskoy SSR, Ser. Biol. Nauk, No 2, 1971, pp 86-92

Abstract: One- or two-line annotations are given for 66 articles dissertations, and books in Russian (or translated into Russian) published between 1933 and 1967. The items are arranged in alphabetical order by author.

Among the works listed are "Chemical Mutagens and Flant Ploidy" by R. M. Platonov and V. V. Sakharov, "Mechanism of Action of Supermutagens" by I. A. Rapoport, "Methods of Detecting Induced Somatic Mutations in the Potato" by Rapoport, "Effect of Chemical Mutagens and Gamma Rays on Mutability Ye. A. Solomko, "Effect of Chemical Mutagens and Gamma Rays on Mutability Ye. A. Solomko, "Effect of Chemical Mutagens and Gamma Radiation in Plant of Pea Varieties" by K. K. Sidorova, "Use of Ionizing Radiation in Plant Breeding" by V. V. Khvostova and S. A. Valeva, "Mutagenic Effect of Ethyleni-Breeding" by V. V. Khvostova and S. A. Valeva, "Mutagenic Effect of Barley mine on Air-Dried Winter Wheat Seeds" by N. S. Eyges, and "Effect of Barley and Wheat Growing Conditions on Seed Resistance to Irradiation" by S. I. Yanushkevich.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201920007-8"

1/2 009 UNCLASSIFIED

PROCESSING DATE--230CT70

TITLE--DEWATERING OF PETROLEUMS FROM THE SANGACHALY DUVANNY! SEA DEPOSIT

-U-

AUTHOR-(04)-SULEIMANDV, A.B., MAMEDOV: KH.M.: MAMEDOV: G.Z., GUMBATOV:

G.G.

COUNTRY OF INFO--USSR

SOURCE--AZERB. NEFT. KHOZ. 1970, (1), 32-4

DATE PUBLISHED ---- 70

SUBJECT AREAS--EARTH SCIENCES AND OCEANOGRAPHY, MATERIALS

TOPIC TAGS--PETROLEUM DEPOSIT, PETROLEUM DEHYDRATION, CRUDE GIL, GEOGRAPHIC LOCATION, MOLECULAR WEIGHT, PETROLEUM DEMULSIFICATION/(U)NCHK PETROLEUM DEMULSIFICATION/(U)NCHK

CONTROL MARKING--NU RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3001/2071

STEP NO--UR/0487/70/000/001/0032/0034

CIRC ACCESSION NO--APO127444

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UNCLASSIFIED PROCESSING DATE--230CT70 009 CIRC ACCESSION NO--APO127444 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT: SANGACHALY DUVANNYI SEA PETROLEUM, D. PRIMEZO 0.8834, MOL. WT. 254, VISCUSITY AT 200EGREES 67.8 CST, CONTG. 6.5PERCENT SILICA GEL TARS, 20PERCENT H SUB2 SU SUB4 TARS: 14PERCENT ASPHALTENES, 8-10PERCENT PARAFFIN M. SIDEGREES, 0.32PERCENT NAPHTHENIC ACIDS, 46PERCENT PARAFFINIC NAPHTHENIC HYDROCARBONS IN THE 62-85DEGREES FRACTION, IPERCENT OF FRACTIONS B. IS SMALLER THAN OR EQUAL TO BODEGREES, AND ALK. WATER WITH SO SUB4 PRIMEZ NEGATIVE HARDNESS WAS DEWATERED TO A H SUB2 O CONTENT OF 1-1. SPERCENT BY PUMPING IT THROUGH A TUBE FURNACE, ADDING 1.5PERCENT OF CA TYPE NCHK DEMULSIFIER AT 75-80DEGREES, AND PUMPING IT INTO A SETTLING TANK WHERE A BOTTOM HEATING COIL PROLUNGED THE SETTLING PERIOD AT TEMPS. IS GREATER THAN 51DEGREES. RECYCLING OF THE SEPD. WATER CONTG. DEMULSIFIER REDUCED THE OUTLAY OF NCHK . HAICLASSIFIED

USSR

UDC 621,385.64

MAMEDOV, K. YA.

"Frequency Stability in Magnetrons"

Kiev, Izvestiya VUZ -- Radioelektronika, Vol 13, No 9, 1970, pp 1019-1022

Abstract: Although the electronic frequency shift in magnetrons as a function of the anode current has been investigated in many papers, the operating limits of the current and the stability region of the magnetron is rarely indicated in curves of the shift. This complicates comparisons and analyses of the frequency characteristics for magnetrons of different types. The author of this brief communication proposes the use of a more general characteristic of operation mode to replace plots of the shift: the angle of phase mismatch relative to the anode current. Thus, when experimental curves for the electronic frequency shift are absent, the operating point for a particular magnetron can be chosen by this angle. The curves given in the communication indicate that the best condition for frequency stability is obtained with operation at low values of the angle and a heater current of zero when the cathode thermal balance is maintained by inverse electron bombardment.

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Acc. Nr:

AP0047250

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Ref. Code: UR 0504

PRIMARY SOURCE:

Terapevticheskiy Arkhiv, 1970, Vol 42, Nr /

pp 46-48

INDICES OF EXTERNAL RESPIRATION IN ISCHEMIC DISEASE OF THE HEART

S. M. Gusman, I. I. Mamedop

Summary

The authors conducted a complex investigation of the external respiration function in 32 patients with different forms of ischemic disease of the heart by means of a spirometabolograph. The ventilation indices of the functional condition of the external respiration (respiratory volume, minute respiratory volume, maximum pulmonary ventilation) appeared to be

mostly altered.

There was also seen a drop in the vital capacity of the lungs due to the decrease of the volume of its components. There was a tendency to a risel nowygen consumption, though the

coefficient of oxygen consumption remained within the norma.

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REEL/FRAME 19790757 1412

USSR

VDC 532.516

MAMEDOV, M. A.

"Study of the Problems of Flow Similarities of Viscous Fluids"

Tr. Azerb. NII vod. probl. (Works of the Azerbayzhan Scientific Hesearch Institute of Water Problems), 1972, Vol. 3, pp 90-96 (from RZh-Hekhanika, No 3, Mar 73, Abstract No 3B799)

Translation: Problems of the similarity of motions of viscous fluids are discussed. A parameter which simultaneously takes into account the effect of gravitational forces, pressure, inertia, and viscosity is obtained by the similarity method. Satisfactory results in modeling rudder processes were obtained on the basis of the new similarity criterion. 12 ref. Author's abstract.

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1/2 007 UNCLASSIFIED

PROCESSING DATE--020CT70

TITLE--PREPARATION OF VINYL CHLORIDE BY THE DIRECT CHORINATION OF CETHYLENE IN A FLUIDIZED CONTACT BED ON A PILOT PLANT APPARATUS -U-AUTHBR-(05)-ALIYEV. V.S., NAMEDOV. M.A., GUSEYNOV, M.M., PUPOVA, T.P.,

AGAYEV, M.T.

COUNTRY OF INFO--USSR

SOURCE--ZH: PRIKL. KHIM. (LENINGRAD) 1970. 43(3) 616-20

DATE PURLISHED ----- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--VINYL CHLURIDE, ETHYLENE, FLUIDIZED BED, CHEMICAL PRODUCT PRODUCTION, CHLORINATED ORGANIC COMPOUND, CHLORINATION

CONTROL MARKING--NO RESTRICTIONS

DUCUMENT CLASS--UNCLASSIFIED PROXY RECLIFRAME--1992/0339

STEP NO-+UR/0080/70/043/003/0616/0620

GIRC ACCESSION NO--APOILIS33

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201920007-8"

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PROCESSING DATE--020CT70 UNCLASSIFIED 007 2/2 CIRC ACCESSION NO--APOLI1533 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. CH SUBZ: CHCL WAS PREPD. IN MAX. 85.5PERCENTS YIELD BASED ON C SUB2 H SUB4 (80.6PERCENT UN CL) WHEN CHEORINATION OF C SUB2 H SUB4 WAS CARRIED OUT AT 450DEGREES WITH A 4:1 C SUB 2 H SUB 4-CL RATIO IN A JACKETED 146-6 MM STAINLESS STEEL TUBE CONTG. A FLUIDIZED BED OF 0-14-0-30 MM QUARTZ SAND INTO WHICH CL WAS INTRODUCED AT A HEIGHT OF 250 MM ABOVE THE C SUBZ H SUBZ INPUT. THE CONDENSATE CONTAINED. BESIDES 78.03PERCENT CH SUB2: CHCL, 0.98PERCENT ETCL. 0.75PERCENTECH SUB2:CCL SUB2. I.BBPERCENT CLS AND 0.94PERCENT TRANS-CLCL: CHCL. 016PERCENT MECHCL SUB2, 13-35PERCENT CICH SUB2 CH SUB2 CL. 0.38PERCENT MECCL SUB3, 0.45PERCENT CL SUB2 CHCH SUB2 CL, 1.70PERCENT CL SUB2 C:CHCL, 1.36PERCENT C SUB2 CL SUB4, 0.01PERCENT C SUB2 H SUB2, AND O.OIPERCENT CH SUB2: CHCH: CH SUB2. UNCLASSIFIED

USSR

UDC 668,017,538

ALI-ZADE, Z. I., and MAMEDOV, M. B., Azerbaykzhan Polytechnical Institute

"Study of the Heat Capacity of Nickel-Titanium Alloys in the Area of the Curie Point"

Moscow, Fizika Metallov i Metallovedeniye, Vol 30, No 5, 1970, pp 1098-1099

Abstract: The authors studied the temperature dependence of the heat capacity of pure nickel and nickel-titanium alloys containing 2.5 and 5 wt.% Ti. The electrical and magnetic parameters of the alloys were determined. According to the authors' calculations, the maximum error in measurement of heat capacity was ± 2.5% with a heating rate of 0.5-1.5 deg/min. The specific heat capacity of the specimens studied has a sharp maximum in the area of the curie point. As the concentration of titanium in the nickel increases, the curie point is displaced toward lower temperatures and the jump in C (t) decreases. The anomalous increase in C (t) for nickel-titanium alloys at 100-300° apparently results from disordering of spin systems and is a second-order phase transition of the order-disorder type.

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USSR

UDC 547.26*118.07

ABDULLAYEV, G. K., GAYDAY, V. I., MAMEDOV, M. M.

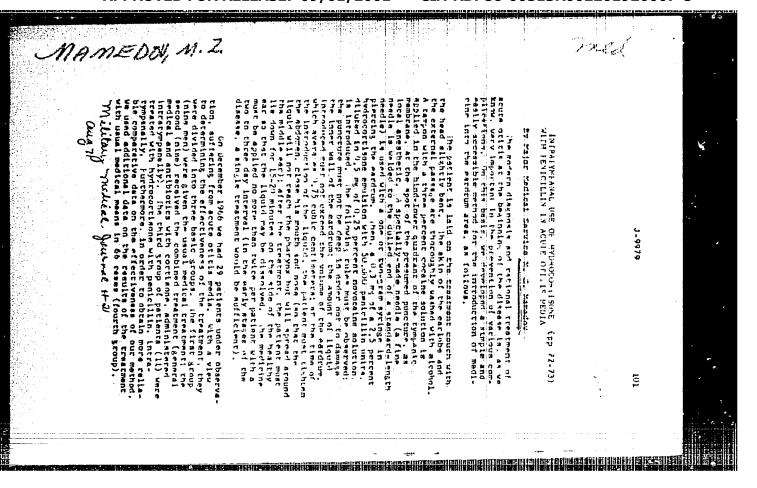
"A Method of Making Hydroxybenzyl Ester of Phosphorous Anid"

Moscow, OTkrytiya, Izobreteniya, Primyshlennyye Obraztsy, Tovarnyye Znaki, No 15, Apr 73, Author's Certificate No 374322, Div C, filed 4 May 70, published 20 Mar 73, p 52

Translation: This Author's Certificate introduces: 1. A method of making hydroxybenzyl ethers of phosphorous acid distinguished by the flact that phenols are interacted with paraform and phosphorus trichloride at a temperature from -10 to +80°C in an organic solvent with subsequent isolation of the goal product by conventional methods. 2. A modification of this method distinguished by the fact that the process is carried out in a medium of methyl and ethyl alcohols, acetone, dioxane, or diethyl ether.

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UDC 615.849.19.015:612.845.1-036.3

KRASNOV, M. M., SAPRYKIN, P. I., DORONIN, P. P., HIKOL'SKAYA, G. H., AKOPYAN, V. S., and MAMEDOV, N. G.

"Electron-Microscopic Study of Tissues of the Eye Fundus Following Leser Coagulation"

Moscow, Vestnik Oftal'mologii, No 2, 1973, pp 9-12

Abstract: The changes produced in the tissue of the eye fundus following exposure to therapeutic doses of laser radiation were studied in experiments on pigmented rabbits of the chinchilla breed with the purpose of obtaining data pertaining to the optimum conditions of applying laser radiation for photocoagulation of the retina in the therapy of retinal detachment. Radiation in the energy range of 0.02-0.05 J + 85 (energy densities of 5.5-17.0 J/sq. cm.) emitted by a ruby laser was applied. The irradiated eye tissues were subjected to microscopic and electron-microscopic study on nacrificing the animals within periods of 10 min-3 wks after photocoagulation. The damage was apparently limited to the external layers of the retina and the pigmented epithelium and deeper layers were affected only slightly. Two types of damage to the retina and to the pigmented epithelium were observed, one due to meanwhical effects of an explosive nature and another due to thermal coagulation effects. Within 2-3 wks the part of the photoreceptor apparatus at the site of the injury

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KRASNOV, M. M., et al., Vestnik Oftal'mologii, No 2, 1973, Ep 9-12

produced by the radiation was substantially restored to a state in which it apparently was capable of functioning. The schera was not affected. The study that had been conducted indicated that in the search for optimum conditions of laser irradiation one must attempt to reduce as far as possible mechanical effects and restrict the thermal effects to the layer of pigmented epithelium.

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- 03 -

USSR

UDC 621.396.6-181.48

MAMEDOV, N. G.

"Vitreous Semiconductors and Their Future in Miniature Electronics"

Sb. nauch. tr. po probl. mikroelektron. Mosk. in-t elektron. tekhn. (Fiz.-mat. seriya) (Scientific Collection on Problems in Miniature Electronics, Moscow Institute of Electronics Engineering, Physics-Mathematics Series) No 9, 1972, pp 279-286 (from RZh--Radiotekhnika No 10, 1972, Abstract No 10V244)

Translation: A short review is given of the general characteristics of semiconductors, including chalcogenidic glass. The possibility is noted of using them in the construction of memory and switching elements; their superiority over other semiconductor devices of this genre is indicated. The peculiarities of the volt-ampere characteristics of the devices using vitreous semiconductors are discussed. Their areas of utilization and the possibilities of their inclusion in miniature electron devices are shown. Three illustrations, one table, bibliography of seven. ** **S.**

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201920007-8"

1/2 C10 UNCLASSIFIED PROCESSING DATE--300CT70
TITLE--MINERALIZATIONS AND SALT ION COMPOSITIONS OF STRATAL WATERS OF THE
LUWER FORMATION OF THE PRODUCTIVE SERIES ,PK, KS, NEP, OF THE PETRULEUM
AUTHOR-[04]-MAMEDOV, N.I., ALIKHANOV, G.G., DADASHEV, M.N., KASUMOV, K.A.

CCUNTRY OF INFO--USSR

SCURCE--AZERB. NEF. KHUZ. 1970, (2), 10-12

DATE PUBLISHED ---- 70

SUBJECT AREAS-EARTH SCIENCES AND DCEANOGRAPHY

TOPIC TAGS-GEOCHEMISTRY, GROUND WATER, GEOGRAPHIC LOCATION

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3003/0141

STEP NO--UR/0487/70/000/002/0010/0012

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CIRC ACCESSION NU--AP0129397

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PROCESSING DATE—300CT70

CIRC ACCESSION NG—APO129397

ABSTRACT/EXTRACT—(U) GP-O— ABSTRACT. SUME 38 CHEM. ANALYSES OF STRATAL WATERS FROM THE TITLE SERIES IN THE CASPIAN SEA AREA ARE PRESENTED, AND THE GEOCHEMISTRY OF THESE WATERS IS DISCUSSED.

PROCESSING DATE--230CT70 UNCLASSIFIED 020 1/2 TITLE--EFFECT OF THE ANTIOXIDANT ADDITIVE IGNOL ON THE PROPERTIES OF

TRANSFORMER DILS -U-AUTHOR-(03)-KULIYEV, R.SH., MAMEDOV, N.SH., MUSAYEV, G.T.

COUNTRY OF INFO--USSR

SOURCE--KHIM. TEKHNOL. TOPL. MASEL 1970, 15(4), 52-3

DATE PUBLISHED----70

SUBJECT AREAS--MATERIALS

TOPIC TAGS--PHYSICAL CHEMISTRY PROPERTY, ELECTRIC PROPERTY, TRANSFORMER OIL, DIELECTRIC PERMEABILITY, ANTIOXIDANT ADDITIVE

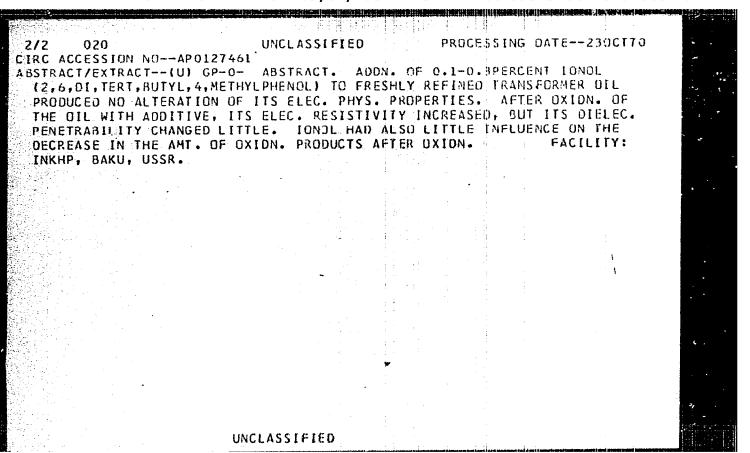
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3001/2088

STEP NO--UR/0065/70/015/004/0052/0053

CIRC ACCESSION NO--APO127461

UNCLASSIFIED



USSR

UDC 678.742.3.01:53

MANEDOV, R. I., SADYKH-ZADE, S. I., SULTANOV, R. A., ALIYEV, G. D. ALI-ZADE, E. M., and FATALIYEV, A. G.

"Modification of Polypropylene With Organsphosphorus Compounds During the Reprocessing"

Moscow, Plasticheskiye Massy, No 6, 1973, pp 61-62

Abstract: Results of the investigation of thermal and optical ageing of a polypropylene sample modified by a diphosphite are described. It was established that addition of the diphosphite to the polypropylene retards the oxidation processes, this material exhibiting better indexes than polypropylene samples modified with synergistic mixtures of 0.3% of topanol KA + 0.5% of dilauryl thiodipropionate and the light stabilizer benzone CA. Addition of the diphosphite to the polypropylene increases considerably its clasticity preserving its starting strength and increasing its frost stability down to -30°C.

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UDC: 517.514

USSR

DZHAFAROV, A. S., MAMEDOV, SH. F.

"Traces of Functions of Certain Weight Classes"

Teoremy Vlozheniya i Ikh Prilozheniya [Imbedding Theorems and Their Teoremy Vlozheniya i Ikh Prilozheniya [Imbedding Theorems and Their Applications -- Collection of Works], Moscow, Nauka Press, 1970, pp 81-95, (Translated from Referativnyy Zhurnal Matematika, No. 8, 1970, Abstract #8882, by the authors).

Translation: An evaluation is made for the closeness of certain functions of several variables of class (like the class $K_p^{1/2}, \dots, Y_n$ of S. M. Nikok'skiy) maving differential properties in mixed Lebesque norms with weight $K_p^{1/2}$ (1+ $|\mathbf{x}_k|$) to their values on a hyperplane of lower measure, where K_k are arbitrary real.

numbers. It is also established that this rate cannot be improved. The results produced are closely related to the results of S. L. Sobolev, V. I. Kondrushev, S. M. Nikol'skiy, L. D. Kudryavtsev, and P. Pilik.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201920007-8"

USSR

UDC: 517.514

MAMEDOV, SH. R.

"Theorems of Imbedding for Spaces of Strongly Analytic Functions"

Teoremy VIozheniya i Ikh Prilozheniya [Imbedding Theorems and Their Applications -- Collection of Works], Moscow, Nauka Press, 1970, pp 162-167, (Translated from Referativnyy Zhurnal Matematika, No. 8, 1970, Abstract #8B80, by the author).

Translation: In the spaces of strongly analytic functions $n_s^k(0^k, \mu_k, p)$ in the cube 0^k , introduced by the author earlier, direct and inverse inbedding-type theorems are proven, establishing the relationship of functions from $n_s^k(0^k, \mu_k, p)$, with its trace in cube 0^j of smaller size. In the space of

functions $N_S^k(D^k, 1, p)$ with unit weight a proof is given of the existence of the generalized derivatives of S. L. Sobolev, and the structural properties of the generalized derivatives of functions $N_S^k(D^k, 1, p)$ are indicated.

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UDC 577.3

USSR

ABDULLAYEV, G. B., MAMEDOV, Sh. V., DZHAFAROV, A. I., and PERELYGIN, V. V., Institute of Physics and Institute of Physiology

"Inhibition of Free Radicals in the Retina by Selenium"

Baku, Doklady Akademii Nauk Azerbaydzhanskoy SSR, No 3, 1973, pp 25-28

Abstract: The electron paramagnetic resonance spectrum was studied in the enucleated eyes of rabbits two days after they received parenteral injections of sodium selenite. At room temperature, both the control and experimental preparations of the retina and pigment epithelium showed an almost symmetrical singlet with $g=2.0035\pm.005$ and $\Delta H_{m}=6\pm.5$ oe. The only difference was in the intensity of the signal. The signals were more intense in the pigment epithelium. At the temperature of liquid nitrogen, all the parameters of the line were almost unchanged, but there was a substantial decrease in intensity of the signal. After the specimens were thawed at room temperature, the intensity of the signal was completely restored. In specimens from animals treated with selenium, the shape, g-factor, and width of the line remained unchanged, although there was a significant decrease in concentration of the paramagnetic centers compared to the control. 1/1

UDC 535.34.539.213.27

USSR

ABDULLAYEV, G. B., MANEDOV SH. V., ABUTALYEOVA, Z. M., IBRAGINOV, H. I., and VOLCHENKOV, YE. YA., Institute of Physics, Academy of Sciences Azerbaydzhan.

"On Some Peculiarities of IR Absorption of Amorphous Selenium"

Paku, Izvestiya Akademii Nauk Azerbaydzhanskoy SSR, Seriya Fiziko-Tekhnicheskikh i Matematicheskikh Nauk, No 4, 1971, pp 100-113

Abstract: The authors undertook to elucidate those paculiarities of the selenium IR spectrum which are related to its preheat treatment. The initial material was amorphous powdered selenium, purity 99.9999 percent (V-5). Three series of samples were fabricated; viz., (1) from V-5 selenium evacuated to $p \le 10^{-4}$ mm Hg, (2) from selenium with 0.05 nol. purcent I₂₀ and (3) from nelenium with 0.05 at. percent Tl. All samples underwent heat treatment in the 280-700° C range. The IR spectra display bands at 3.5, 416, 9.0, 13.5, 16.0, 20.4 microns depending on $T_{\rm tr}$ with the 20.4-micron band strongest, 13.5

1/3

USSR

ABDULLAYEV, G. B., et al., Izvestiya Akademii Nauk Azerbaydzhamskoy SSR, Serlya Fiziko-Tekhnicheskikh i Matematicheskikh Nauk, No 4, 1971, pp 100-113

medium strong, and the rest weak. The optical density of bands at 20.4, 13.5, and 16.0 microns is constant for all Ttr. while the Ttr-dependence of the optical density of bends at 3.5, 4.6, and 9 microns is of an extremal character.

It was found for the first time that the degree of transmission (background) depends on Ttr. There are two types of background: 1) general background and (2) background increasing in the direction of the short-wave region of the spectrum. The behavior of both backgrounds is of a negular character. The likeliest cause of the appearance of background is the Tyndall effect. General background may be due to scattering by large supramelecular formations, the second background to the Bayleigh-Jeans mechanism. The previous temperature history, along with the crystallization temperature, has a significant effect

2/3

USSR

ABDULLAYEV, G. B., et al., Izvestiya Akademii Nauk Azerbayduhanskoy SSR, Approximately 4. De. 60 al., 1206501/4 Anguenti Mank Mo 4, 1971, pp 100-113 Seriya Fiziko-Tekhnicheskikh i Matematicheskikh Nauk, No 4, 1971, pp 100-113

on the selenium crystallization process and the structure of the resultent material. In the molten state sclenium is a structurized system, and the growth of small crystals from such a melt may occur by the addition of ordered aggregates of macromolecules.

3/3

- 92 -

UNCLASSIFIED PROCESSING DATE--18SEP70 TITLE--DECOMPOSITION OF PARAMAGNETIC CENTERS IN SELENTUM -U-1/2:

AUTHOR-(04)-ABOULLAYEV, G.B., IBRAGIMOV, N.I., MAHEDIDY, SH.V., IBADOV,

A.KH. COUNTRY OF INFO--USSR

SOURCE-FIZ. TEKH. POLUPROV. 1970, 4(1), 97-100

DATE PUBLISHED-----70

SUBJECT AREAS -- MATERIALS, PHYSICS

TOPIC TAGS--ELECTRON PARAMAGNETIC RESONANCE, POTENTIAL DIFFERENCE. ACTIVATION ENERGY, SELENIUM, PARAMAGNETIC METAL, CRYSTIAL DEFORMATION. BROMIE, IODINE, OXYGEN, THALLIUM, THERMAL EFFECT

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1983/1004

STEP NO--UR/0449/70/004/061/0097/0100

CIRC ACCESSION NO--AP0053924

UNCLASSIFIED

PROCESSING DATE--18SEP70 UNCLASSIFIED ABSTRACT/EXTRACT-- (U) GP-0- ABSTRACT. AN EPR STUDY WAS CARRIED DUT OF SE CIRC ACCESSION NO--APO053924 IPURITY 99.9999 AND 99.99PERCENT) WITH O. BR. I AND TL IMPURITIES AT T EQUALS 300-700DEGREESK. THE TEMP. DEPENDENCE OF THE CONCN. OF PARAMAGNETIC CENTERS (N) OBEYS THE FORMULA N EQUALS N SUBO(1 -EXPLIDELTAE-KITHETA PRIME NEGATIVEL MINUS T PRIME NEGATIVELI)), WHERE THE ACTIVATION ENERGY, DELTAE, OF THE REVERSIBLE DECOMPN. OF PARAMAGNETIC CENTERS IS 0.12, 0.24, AND 0.28 EV FOR O. BR, AND T. RESP.; THETA IS THE TEMP. AT WHICH THE PARAMAGNETIC CENTERS DECOMP. COMPLETELY. THIS THETA IS IDENTICAL WITH THE TEMP. AT WHICH THE CHAIN LIKE STRUCTURE OF LIQ. SE IS DESTROYED LI.E. IS SIMILAR TO 740DEGREESK). CORRELATION IS FOUND BETWEEN DELTAE AND THE AFFINITY WITH THE ACCEPTOR MOL. ELECTRON. PHI: DELTAE EQUALS 0.16PHI. UNCLASSIFIED!

USSR

une 536.413:620.181.428.4.05.082

ALIYEV, N. G., KERIMOV, I. G., KURBANOV, M. M., and MAMEDOV, T. A.

"A Dilatometer With Photoelectric Registration"

Moscow, Teplofiz. svoystva veshchestv pri nizk. temperaturakh -- sb. (Thermophysical Properties of Substances at Low Temperatures -- Collection of (Thermophysical Properties of Substances at Low Temperatures -- Collection of (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties of Substances at Low Temperaturakh -- Sb. (Thermophysical Properties

Translation: The authors describe the design of a highly sensitive dilatometer with photoelectric registration that is used to measure the thermal expension of solids in the 4.2-400 K range, in addition to explaining the measurement procedure. The dilatometer includes a system for registering and transmitting the amount of elongation. The main part of the elongation registration system the amount of elongation. The main part of a bridge network. A coiled conis a differential photoresistor that is part of a bridge network. A coiled constantan wire is used to heat the sample throughout its entire length. Its temperature is measured with an angular resistance thermometer in the 4.2-100 K range, and with a copper-constantan thermocouple in the 100-400 K range. The instrument is calibrated over the 4.2-400 K range by using a piece of copper instrument is calibrated over the 4.2-400 K range by using a piece of copper form long and 5 mm in diameter as a standard. The instrument was checked by measuring the thermal expansion of aluminum; this showed that the measurement 1/2

USSR

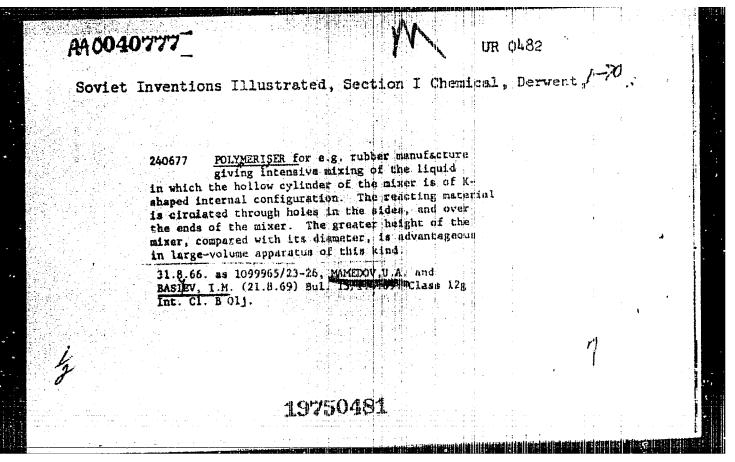
ALIYEV, N. G., et al., Teplofiz. svoystva veshchestv pri nizk. temperaturakh — sb., 1972, pp 163-167

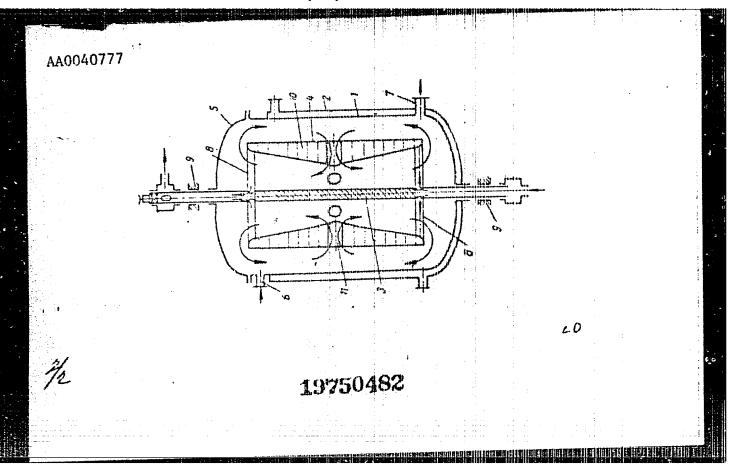
accuracy was 0.5 percent with respect to the calibration data. The dilatometer's sensitivity was found to be 1.10-9. This measurement method makes it possible to eliminate the introduction of a correction factor for the expansion of quartz. (3 illustrations; 13 bibliog. ref.)

2/2

"APPROVED FOR RELEASE: 09/01/2001 CIA-I

CIA-RDP86-00513R002201920007-8





UDC 681.333:519.2

ZORICH, A. Ye., KONOVALOV, V. N., and MANEDOV, V. F.

"A Device for Determining the Probability Density of Extremal Values of Random Processes"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztay, Tovarnyye Znaki, No 25, Sep 71, p 193 (G 06 g 7/52, No 312274 (1361705/18-24 from 19 September 1969; Claimant: State Scientific Research Institute of Civil Aviation)

Abstract: This patent claims a device for determining the probability density of extremal values of random processes, containing a quantizer of the input signal for a given number of levels with impulse outputs and a block of registering counters; the device is distinguished in that for the purpose of increasing the error detection, it contains a multiple input coincidence block connected to the outputs of the quantizer, to which a control block is also connected that joins the two outputs with the input control coincidence block, connected to the block of registering counters.

1/1

- 48 -

Pulse Technique

UDC: 621.318.3.004.5:621.376.5

USSR

TSESARUK, N. Ya., KOSTROWIN, V. K., KLYATSKIN, M. G., MAUJEDOV, V. I.

"A Method of Monitoring the Generation of a Control Command From a Pulsa-Duration Modulator by the Armature of an Electromagnetic Drive Whileh Does not Have its Own Contact Groups"

Moscow, Otkrytiya, Izobreteniya, Promyshlonnyye Obraztsy, Tovarnyye inasi, No 21, 1970, Author's Certificate No 274222, filed 20 Jun 69, p 57

Abstract: This author's certificate introduces a method of monitoring the generation of a control command from a pulse-duration modulator by the armature of an olectromagnetic drive which does not have its own contagt groups. Monitoring is accomplished by forming electrical pulses corresponding to the times when armature motion is completed. As a distinguishing feature of the patent, the reliability of monitoring is assured by using the above-mentioned electric pulses to form a pulse signal corresponding to the generated command, and comparing this signal with the control command signal with respect to phase shift and frequency.

1/1

CIA-RDP86-00513R002201920007-8" APPROVED FOR RELEASE: 09/01/2001

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UR 0482

Soviet Inventions Illustrated, Section II Electrical, Derwent,

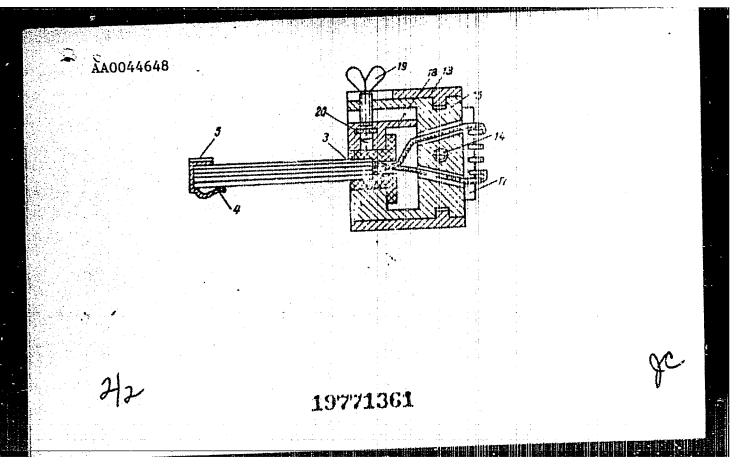
238191 INSTRUMENT FOR INVESTIGATING PIEZOELECTRIC CONVERTER has been improved by making the carrier of the tested sample (3) as a yoke. The vertical movements of the carrier are provided by a screw (14) and the mounting (18) of the sample can be adjusted in the horizontal plane by a screw (19). Both position adjusting screws (14 & 19) have their locking arrangements (20). A mirror (5) from the optical part of the instrument is mounted by a spring (4) on the free end of the 27.10.65 as 1034534/15-10.V.N.MYZNIKOV et al

(3.7.69) Bul 9/20.2.69. Class 42k. Int.Cl.G 011.

AUTHORS: Myznikov, V. N.; Mamedov, V. I.; Likhterov, V. M.

19771360

Martin College Hill House



"APPROVED FOR RELEASE: 09/01/2001 CIA-

CIA-RDP86-00513R002201920007-8

din. Moscow, USSR). Vysphomol. Societa, Ser. B 1870, 12(1), and elec. cond. (ρ_s) of Ia (X = 0) (I) and Ia (X = phthalidylidene) (II) were detd. at 0.5 × 10²-0.5 × 10⁴ Hz and -100 to

 $+400^{\circ}$. I and II were prepd by polycyclization in polyphosphoric acid and cast on a glass support to form films 50 μ thick. A plot of tan δ vs. temp, showed that a substitution of an ether bond for a phthalldylidene group brought about a significant increase in the max of tan δ , (due to a relaxation of the polar groups) and a slight decrease in activation energy. A plot of $\rho_{\rm c}$ vs. temp, for I had an inflection, suggesting that a transition into another state had occurred. Heat treatment of I or II in vacuo at 250° failed to affect the dependence of $\rho_{\rm c}$ on temp.

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JU.

Acc. Nr:

Abstracting Service:

Ref. Code:

UR oyco

101310t Effect of structural phenomena on the electrophysical properties of oxadiazole polymers. Korshak, V. V.: Marne.

CONTG. SMALLER THAN	O133800 GP-O- ABSTRACT. THE FOR FOUAL TO 0.3PERCEN	PROCESSING DATE- FILTRATION OF AQ. SOLW IT POLYACRYLAHIDE (I) THE PREDUCED THE FILTRATION	S. RUUGH
(R), AND R VARIED I OF ZOPERCENT CLAY T ONLY 0.3PERCENT I R	INVERSELY WITH THE CONC TO SAND REDUCED'R BY SI	IN. OF I] IN THE SOLMS. IMILAR TO SOPERCENT: THE HAN OR EWDAL TO 1000PERC	ADD. OF

PROCESSING DATE--160CT70 013 UNCLASSIFIED 1/2 TITLE--PROCEDURE FOR DETERMINING THE QUANTITY OF ADSORBED GAS BASED ON A CHANGE IN THE SPECIFIC WEIGHT OF THE GAS MIXTURE: +U+

AUTHOR-(03)-ASLANOV. SH.S., MAMEDOV, YU.G., KHYDYRKULIEV, B.

COUNTRY OF INFO--USSR

SOURCE--IZV. VYSSH. UCHEB. ZAVED., NEFT GAZ 1970. 15(1): 49-52

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS-CHEMICAL ANALYSIS, GAS, NITROGEN

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1996/1639

STEP NO--UR/0152/T0/013/001/0049/0052

CIRC ACCESSION NO--ATO118618

UNCLASSIFIED

PRICESSING DATE--160CT70 UNCLASSIFIED 013 2/2 CIRC ACCESSION NO--ATO118618 A GAS CONDENSATE MIXT. WAS PASSED ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THROUGH A COLUMN, CONTG. A WELL PACKED 1:1 CLAY SAND BED, UNTIL ITS STAN., WHEN THE MIXT, WAS DISPLACED WITH N AT THE SAME PRESSURE. THE DISPLACEMENT WAS COMPLETED, WHEN THE DUTLET GAS HAD THE SP. GR. OF N. THEN, THE ADSORPTION COLUMN WAS DISCONNECTED AND ITS PRESSURE WAS GRADUALLY DECREASED BY LETTING OUT THE GAS, SAMPLES OF WHICH WERE TAKEN AT DETU. PRESSURES. THE SP. GR. OF THE SAMPLES WAS DEED. AT 1 ATM. AS THE PRESSURE IN THE COLUMN DECREASED, THE SP. GR. OF THE OUTLET GAS DECREASED. VARYING BETWEEN THE SP. GR. OF THE GAS CONDENSATE MIXT. TO THAT OF N. AS THE DESCRIBED GAS DURING THE PRESSURE DECREASE WAS DISPLACED BY N. HAVING THE SP. GR. OF THE GAS MIXT., THE VOL. SHARE OF THE MIXT. AND N COULD BE DETD. IN A SYSTEM WITH GAS CONDENSATE RATIO 2500:1, AT 301 ATM AND 293DEGREESK, THE SP. GR. OF THE MIXT. DECREASED BY 10PERCENT DUE TO THE DESORBED GAS. THE SHARE OF THE MIXT. IN THE ADSORBENT PORES INCREASED WITH THE PRESSURE DECREASE AND AT 140 ATM, 16PERCENT OF THE PURE VOL. WAS OCCUPIED BY THE GAS. THE HIGHER DESORPTION OCCURRED WHEN THE PRESSURE DECREASED BELOW THAT OF MAX. CONDENSATION (130 ATM). IN CLAY STRATA, GREAT AMTS. OF GAS COULD BE THUS ACCUMULATED DUE TO DIFFUSION AND ADSCRPTION, WHICH ARE TO BE TAKEN INTO CONSIDERATION FOR CALCG. THE GAS RESERVES. FACILITY: AZERB. INST. NEFTI KHIM. IM. AZIZBEKOVA, BAKU, USSR.

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201920007-8"

1/2 049 UNCLASSIFIED PROCESSING DATE--LENGYTO TITLE--ON SENSITIZING RECOMBINATION CENTRES IN GASE SINGLE CRYSTALS -U-

AUTHOR-(04)-ABDULLAYEV, G.B., ALTYEVA, M.KH., BELENKEY, G.L., MAKEDOVA,

CCUNTRY OF INFO-USSR

SOURCE-PHYSICA STATUS SOLIDI, 1970, VOL 37, NR 2, PP 571-576

DATE PUBLISHED ---- 70

SUBJECT AREAS -- MATERIALS, PHYSICS

TOPIC TAGS--ELECTRON_STRUCTURE, CRYSTAL LATTICE STRUCTURE, TIN, METAL COATING, SINGLE CRYSTAL, OPTIC PROPERTY, REACTION KINETICS, GALLIUM SELENIDE, PHOTOCCODUCTIVITY, RECOMBUSTION REACTION, CAPTURE CROSS SECTION

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1989/0629

STEP NO--GE/0030/70/037/002/0571/0576

CIRC ACCESSION NO--APO107226
UNCLASSIFIED

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UNCLASSIFIED

UDC: 517.946

MAMEDOVA B. S.

"Investigating Generalized and Classical Solutions of Unidimensional Mixed Problems in the Finite Domain for One Class of Nonlinear High-Order Parabolic Equations"

Baku, Doklady Akademii Nauk Azerbaydzhanskoy SSR, vol 27, No 9, 1971, pp 8-13

Abstract: This article, presented by Academician A. I. Guseynov of the Azerbaijan Academy of Sciences, investigates the following problem:

$$\begin{cases} \frac{\partial \mathbf{u}}{\partial \mathbf{t}} - \mathbf{A}(\mathbf{u}) \cdot \sum_{i=0}^{n} \frac{\partial^{i}}{\partial x^{i}} & (\mathbf{p}_{i}(\mathbf{x}) \frac{\partial \mathbf{u}}{\partial x^{i}} = \mu \mathbf{F}(\mathbf{u}) \\ \mathbf{u}(\mathbf{0}, \mathbf{x}) = \mathbf{\varphi}(\mathbf{x}), \\ \mathbf{u}_{i}(\mathbf{u}) = \sum_{j=0}^{-1} \left\{ \alpha_{i} \frac{\partial^{j} \mathbf{u}}{\partial x^{j}} \right|_{\mathbf{x}=\mathbf{a}} + \beta_{i,j} \frac{\partial^{j} \mathbf{u}}{\partial x^{j}} \Big|_{\mathbf{x}=\mathbf{b}} \right\} = 0 \quad (\mathbf{i} = \overline{1, 2n}); \end{cases}$$

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UNCLASSIFIED PROCESSING DATE-13NOVIO

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CIRC APEROMEDIFOR RELIEASES 09/01/2001 CIA-RDP86-00513R00220192007-8"
ABSTRACT/EXTRACT—(U) GP-0- ABSTRACT. AN INVESTIGATION THE THERMALLY STIMULATED

WDC: 517.946

MAMEDOVA, B. S., Doklady Akademii Nauk Azerbaydzhenskoy SSR, vol 27, No 9, 1971, pp 8-13

where $0 \leqslant t \leqslant T \leqslant +\infty$, a $\leqslant x \leqslant b$ (a and b are finite numbers, a $\leqslant b$); A, F are nonlinear operators; $p_1(x) \in C(1)$ ($1 = \overline{0,n}$), $p_n(x) \neq 0$ at [a,b]; \emptyset is the function specified at [ab]; \emptyset_{ij} and β_{ij} are constants; the linear differential operator L, generated by $\underline{1}(u) \equiv \sum_{i=0}^{n} d^i / dx^i (p_i(x)d^iu/dx^i)$ and by the boundary conditions $U_i(u) = 0$ ($i = \overline{1,2n}$), is self-conjugate and negatively defined; and μ is a parameter. The author, a member of the Institute of Cybernetics, asserts that the article was written under the direction of K. I. Khudaverdiveyev.

2/2

CIA-RDP86-00513R002201920007-8

USSR

UDC 614.445(497.24)1576.851

BARAGAMOVA, E. YE., ZAKUTINSKAYA, N. A., MAMEDYADE, A. U., Candidate of Medical Sciences, MAMEDOVA, S. A., and MEDVEDEVA, E. P., Amerbaydzhan Antiplague Station

"The Vibrio Content in Rivers and Some Open Water Basins Bondering on Azerbaydzhan," (Report One)

Baku, Azerbaydzhanskiy Meditsinskiy Zhurnal, No 5, Fay71, pp 50-53

Abstract: A study was made of the vibrioflora (particularly cholera vibrios) of the Araks river, Apsheronskiy canal, and Caspian sea, all waters bordering on Iran and long known as an epidemiological focus of cholera, from which the disease frequently spread to Russia. During the years 1967-1968 samples gathered from the waters of the Araks river, Apsheronskiy canal, and Caspian Sea contained 96, 197, and 146 different types of vibrios comprising six groups (Heiberg's classification). Nost types were obtained in the nonths between May and October. Most numerous and epidemiologically interesting were the vibrios in group one, which included also the El Tro Cgawa serowere the vibrios in this group, 18-18.7% of the total number of vibrios type. Of the vibrios in this group, 18-18.7% of the total number of vibrios gathered from the caspian Sea were agglutinated by chalera 0 nerum in different 1/2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201920007-8"

BABAGAMOVA, E. YE., et al., Azerbaydzhanskiy Meditsinskiy Zhurnal, No 5, May 71, pp 50-53

dilutions. On the basis of Heiberg's classification the vibrios gathered from Araks river were grouped as follows: group I contained 29.2%, group II --23.6%, group III -- 2.2%, group IV -- 14.6%, group V -- 1.2%, and group VI --29.2%; from Apsheronskiy canal: group I -- 52.3%, group II -- 33%, group III - 1.5%, group IV -- 0.5%, group V -- 1.5%, and VI -- 11.2%; from Caspian Sea: group I - 51.4%, group II - 12.3%, group III - 4.7%, group V -- 13%; group VI -- 18.6%. No group IV vibrios were found in the Caspian Sea. The medical and sanitary workers of Azerbaydzhan SSR have been warned that the presence of El Tor and other vibrios which are agglutinated by cholera O serum presents a constant threat of a cholera epidemic outbreak, and that at all times the necessary prophylactic measures should be enforced.

2/2

UDC 002.513.5:676.815.2:547

PORTYANSKIY, A. YE., LOKSINA, N. T., TASHPULATOV, YU. T., MANEEOVA, USSR M., and MEKHTIYEV, S. I.

"The Use of Punched Cards for the Solution of Specific Problems in $I\bar{\kappa}$ Spectroscopy"

Moscow, Nauchno-Tekhnicheskaya Informatsiya, Seriya 1 -- Organizatsiya i Metodika Informatsionnoy Raboty, No. 2, 1970, pp 28-30

Abstract: The article describes a direct code developed by the authors for cataloging data and solving specific spectrochemical problems which occur in the practical analysis of aliphatic nitriles ($C \le 10$). standard K5 two-row edge-not ched card is used. To facilitate the coding, a stencil (tracing paper) with code scheme and elements (some of them borrowed from the LMS system) is pasted onto each punched card. The horizontal rows of perforations are designed for recording (all) absorption frequencies; and the vertical rows, for structure coding. code scheme is supposed to reflect the relative arrangement of groups

1/2

.53.

USSR

PORTYANSKIY, A. YE., et al., Nauchno-tekhnicheskaya Informatsiya, Seriya 1 -- Organizatsiya i Metodika Informatsionnoy Raboty, No 2, 1970, pp 28-30

with respect to the CN group. The code is suitable for the cataloging of IR spectra, detailed coding of the structures of various compounds, as well as for finding "structure-spectrum" correlations.

2/2

1/2 012 UNCLASSIFIED PROCESSING DATE--20NOV70
TITLE--MAGNETIC PROPERTIES OF COMPLEXES OF COPPERIT WITH SCHIFF BASES

TITLE-MAGRETIC PROPERTIES OF CUMPLEXES OF COPPERTY OF THE STATE OF THE

ALTHUR-(04)-MEDZHIDOV. A.A., MAMEDOVA, YU.G., LYUBOVSKIY, R.B.,

KURICHENKO, L.N.

CCUNTRY OF INFE--USSR

SCURCE-TEUR. EKSP. KHIM. 1970, 6(1), 133-7 (RUSS)

CATE PUBLISHED ----- 70

SUBJECT AREAS--CHEMISTRY

TUPIC TAGS-MAGNETIC PROPERTY, COPPER COMPLEX, SCHIEF BASE, IMINE, EPR SPECTRUM

CENTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--3002/1169

STEP NO--UR/0379/T0/606/001/0133/0137

CIRC ACCESSION NO--AP0128591

UNCLASSIFIED

PROCESSING DATE--20NOV70 UNCLASSIFIED 012 2/2 CIRC ACCESSION NO--APOl28591 ABSTRACT/EXTRACT-- (U) GP-0- ABSTRACT. THE DPR SPECTRA AND THE MAGNETIC SUSCEPTIBILITY WERE DETD. FOR CUMPLEXES OF CU WITH PARAMAGNETIC AND DIAMAGNETIC SCHIFF BASES. THE RESULTS ARE TABULATED. THE DATA FOR THE COMPLEXES WITH THE PARAMAGNETIC SCHIFF BASES SHOW THAT THE LARGER THAN N.O GROUP OF THE PARAMAGNETIC LIGAND CAN PARTICIPATE IN THE FORMATION OF THE COORDINATION BOND WITH THE CENTRAL METAL JUNE IN THIS CASE, DIAMAGNETIC AS WELL AS PARAMAGNETIC COMPLEXES ARE FORMED. APPARENTLY, THE BOND WITH THE RADICAL GROUP IS FORMED THROUGH THE D ATOM. FACILITY: INST. KHIM. FIZ., CHERNOGOLUVKA, USSR. UNCLASSIFIED

UDC 621.316:65.012.122

MAMEDYAROV, O. S., ZHABINSKIY, YU. V., ISMAYLOVA, T. A.

"Application of the Method of Experimental Planning for Optimizing the Operating conditions of Electric Power Distribution Systems"

Tekh. tereggi ugrunda, Za tekhn. progress (For Technical Progress), 1970, No 11, pp 12-14 (from RZh-Elektrotekhnika i Energetika, No 4, Apr 71, Abstract No 4 Ye 291)

Translation: For the standard distribution network, the problem of insuring minimum active power losses consists in determining the location and power of the reactive power losses when defining the feed voltage regulation laws. Restrictions are given in the form of tolerances of voltage deviations from the rated voltage at the buses of all the consumers. There are 2 illustrations and a 2-entry bibliography. [Azerbaydzhan Scientific Research Institute of Power Engineering, Baku]

1/1

UDC 614.445(497.24):576.851

BARAGAMOVA, E. YE., ZAKUTINSKAYA, N. A., MAMEDZAES, A. U., Gandidate of Medical Sciences, MAMEDOVA, S. A., and MEDVEDEVA, E. Azerbaydzhan Antiplague Station

"The Vibrio Content in Rivers and Some Open Water Basins Bordering on Azerbaydzhan," (Report One)

Baku, Azerbaydzhanskiy Meditsinskiy Zhurnal, No 5, May'll, pp 50-53

Abstract: A study was made of the vibrioflora (particularly cholera vibrios) of the Araks river, Apsheronskiy canal, and Caspian sea, all maters bordering on Iran and long known as an epidemiological focus of cholera, from which the disease frequently spread to Russia. During the years 1967-1968 samples gathered from the maters of the Araks river, Apsheronskiy canal, and Caspian Sea contained 96, 197, and 146 different types of vibrios comprising six groups (Heiberg's classification). Most types were obtained in the months between May and October. Most numerous and epidemiologically interesting were the vibrios in group one, which included also the El Tro Ogawa serotype. Of the vibrios in this group, 18-18.7% of the total number of vibrios gathered from the waters of Raks river and the canal and 8.9% of those gathered from the Caspian Sea were agglutinated by cholera 0 serum in different 1/2

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201920007-8"

BABAGAMOVA, E. YE., et al., Azerbaydzhanskiy Meditsinskiy Zhurnal, No 5, May 71, pp 50-53

dilutions. On the basis of Heiberg's classification the vibrios gathered from Araks river were grouped as follows: group I contained 29.2%, group II -- 23.6%, group III -- 2.2%, group IV -- 14.6%, group V -- 1.2%, and group VI -- 29.2%; from Apsheronskiy canal: group I -- 52.3%, group II -- 33%, group III -- 33%, group III -- 1.5%, group IV -- 0.5%, group V -- 1.5%, and VI -- 11.2%; from III -- 1.5%, group I -- 51.4%, group II -- 12.3%, group III -- 4.7%, group V -- 13%; group VI -- 18.6%. No group IV vibrios were found in the Caspian V -- 13%; group VI -- 18.6%. No group IV vibrios were found in the Caspian Sea. The medical and sanitary workers of Azerbaydzhan SSR have been warned that the presence of El Tor and other vibrios which are agglutinated by cholera 0 serum presents a constant threat of a cholera epidemic outbreak, and that at all times the necessary prophylactic measures should be enforced.

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UDC 911.3:616.981.452(479.2)

EYCELIS, Yu. K., ALIYEV, M. N., LENCHITSKIY, A. Z., and MANGUZADE, U. A.

"Present Structure and History of Natural Plague Foci in Transcaucasia"

V sb. Probl. osobo opasn. infektsiy (Problems of Especially Dangerous Infections -- collection of Works), Saratov, No 4(14), 1970, pp 58-62 (from RZh-Meditsinskaya Geografiya, No 3, Mar 71, Abstract No 3.36.113) by B. Dobrokhotov

Translation: There are at present three autonomous mones in the Transcaucasian territory, which have natural plague foci. In the plain-foothill part of East Transcaucasia, the focal activity is maintained by red-tailed Libyan jirds, Xenopsylla conformis and Ceratophyllus Laeviceps flens. In the Armenian highlands on the alpine and subalpine meadows and mountainous plains, the enzootic is usually maintained by the common vole and by the fleas C. caspius, C. consimilis and Frontopsylla elata. In the semiarid mone of Nakhichevan Autonomous ASSR -- Vinogradov's gerbils, X. conformis and C. iramus fleas. The history of the origin of plague foci in Transcaucasia is described and is linked to the scattering of gerbils from the Iran-Afghanistan desert and to the special features of the course of the epizoptic disease in various regions of focal activity. In spite of the common origin of all three natural foci, at present a link between them seems very unlikely.

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UDC 616.981.455.084(479.24)

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AKTUNDOV, M. G., LENCHITSKIY, A. Z., EYŒLIS, Yu. K., MAMERIADE, Yu. A.

"Evaluation of the Effectiveness of Antitularemia Measures in Azerbaydzhan and Problems With Respect to the Prevention of This Disease"

Baku, Azerbaydzhanskiy Meditsinskiy Zhurnal, No 6, 1972, pp 73-78

Abstract: In the Territory of the Azerbaydzhan SSR there are two active natural foci of tularemia: steppe and high-altitude stream. In some parts of the first of these foci, cases of this disease among humans were noted in 1964-1968. A significant number of preventive measures were undertaken in the republic: shooting rodents -- carriers of the disease -- controlling the disease carriers, general sanitation measures and mass vaccination of the population living in the territory of the natural foci.

The authors evaluate each of the indicated elements on the general level of preventive work and note specific problems for the future. The primary ones among these are the following: continuation of careful epizootological examination and investigation of the acquired material; protection of mass-use water supply; continuation of planned vaccination of the population; training of medical personnel; purposeful analysis of the national economic plans for transformation of nature. All of this will permit timely implementation of the measures aimed at protecting the residents of zones emlangered by tularemia.

um 612.822.8:612.397.81:612.143

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ANOKHIN, P. K., Academician, SHUMILINA, A. I., and MANNIESOV, A. M., Institute of Normal and Pathological Physiology, Academy of Sciences USSR, Moscow

"The Properties of Statistical Farameters of the Tension Rhythm in the EEC of Cerebral Cortex and Subcortical Formations During Stress Caused by Pain"

Moscow, Doklady Akademii Nauk SSSR, Vol 209, No 1, 1973, pp 249-252

Abstract: Experiments conducted on unanesthetized rabbits with implanted electrodes revealed that during perception of pain (painful electrical stimuli of 10-sec duration applied to a hind paw at irregular intervals of 30 sec to 2 min) — and, after a while, also in anticipation of pain — a considerable phase shift develops in the electrograms as a result of the tension rhythm in the sensometer cortex becoming delayed up to 0.5 cycle as compared with the posterior hypothalamus. The cross correlation coefficient is reduced to 0.2 (from 0.3-0.8 in the control state), while the dispersion of the cortical tension rhythm is lowered to 0.5 (from 5-10). All these parameters are indicative of a considerable decrease in the activity of the cortex. At the same time, close functional ties are established between the reticular formation and the posterior hypothalamus, as manifested in full synchronization of slow waves, a rise in the cross correlation coefficient up to 0.99, and an increase in dispersion 1/2

ANOKHIN, P. K, et al, Doklady Akademii Nauk SSSR, Vol 209, No 1, 1973, pp 249-252

to 15-25, which is also indicative of increased excitability. In that stage, the animals are restless and aggressive, and their respiratory rate is increased to 250 and heart rate to 300 per min. Thus, in a stress condition induced by pain, the activity of the cortex is reduced, cortical control over subcortical structures is weakened, and reticular and hypothalamic excitability is increased. This altered functional state of the CNS readily induces pathological changes in the function of various organ systems, especially the cardiovascular system.

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"APPROVED FOR RELEASE: 09/01/2001 CIA-

CIA-RDP86-00513R002201920007-8

1/2 009 UNCLASSIFIED PROCESSING DATE--11SEPTC
TITLE--REMOVAL OF ARSENIC DURING HEAT TREATMENT AND BENEFICIATION IN AN
AQUEOUS MEDIUM OF KERCH ORES -UAUTHOR--TATSIYENKO, P.A., MAMICHEVA, V.P.

COUNTRY OF INFO--USSR

SOURCE--IZV. AKAD. NAUK SSSR, METAL. 1970, (1), 12-16

DATE PUBLISHED ---- 70

SUBJECT AREAS--EARTH SCIENCES AND OCEANOGRAPHY, MATERIALS

TOPIC TAGS--ARSENIC, ORE BENEFICATION, ROASTING FURNACE, ORE, NATURAL GAS, COKE, CHEMICAL SEPARATION, CEMENT

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1988/0538

STEP NO--UR/0370/70/000/001/0012/0016

CIRC ACCESSION NO--APO105523

UNCLASSIFIED

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2/2 009 UNCLASSIFIED PROCESSING DATE--11SEP70 CIRC ACCESSION NO--APO105523 ABSTRACT. THE STUDY WAS CARRIED OUT OF THE ABSTRACT/EXTRACT--(U) GP-0-VALENCE OF AS: IN THE ORE, OF THE REMOVAL OF AS DURING THE ROASTING OF MINERAL PHASES OF THE ORE USING GAS, COKE, AND MAZUT AS REDUCING AGENTS, AND OF THE MIGRATION OF AS FROM COLITE TO CEMENT. THE ORE CONTAINS AS ESP. IN TRIVALENT FORM. WHICH ENABLES ITS REMOVAL DURING ROASTING IN NEUTRAL OR SLIGHTLY REDUCING MEDIA. BY USING GAS (13PERCENT CO AND STPERCENT CD SUB2) AS REDUCING AGENT, AS WAS MOST QUICKLY REMOVED FROM THE FE AL SILICATE PHASE OF ALUMINOUS CEMENT. THE MIGRATION OF AS FROM OULITE TO CEMENT WAS STUDIED BY USING BALANCE TESTS. AND IT WAS DETD. THAT WITH INCREASING TEMP. THE ADSORPTION EFFICIENCY OF THE CEMENT QUICKLY DECREASES, WHICH HELPS THE REMOVAL OF AS. ITESTS OF THE MAGNETIC SEPN. WERE CARRIED OUT IN DISTD., FRESH AND SEA WATER. THE COMPN. OF THE WATER DIDENOT AFFECT THE SOLY. OF AS. THE ANT. OF DISSOLVED AS IS AFFECTED BY THE TIME AND THE DEGREE OF REDN. OF THE ORE. AND IS 25PERCENT FOR THE ORE WITH 17.5PERCENT REDN.

IINCI ACCTETED

USSR

UDC: 621.372.5

MAMIKONOV, Yu. G.

"A Graphic Method of Finding the Elements of Matching Two-Terminal - Pair Networks"

Tr. Mosk. elektrotekhn. in-ta svyazi (Works of the Mosgow Electrical Engineering Institute of Communications), 1970, vyp., pp 159-163 (from FZh-Radictekh-nika, No 11, Nov 70, Abstract No 11A121)

Translation: The simplest two-element L-shaped reactive two-terminal-gair network can be used for matching two-terminal-pair networks. It is shown that the elements of this network may be graphically found from predetermined source and load impedances. The solution is based on the churacteristic impedances of the low- and high-frequency filter. Three illustrations, bibliography of two titles. L. S.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201920007-8"

UDC 632.95

SIMONOV, V. D. MAMINA, F. A., GERASIMOVA, A. I., ALYAMKIN, YU. N., AKHUNOV, T. F., and VYAZOVKINA, G. I.

"Determination of the Basic Substance in Herbicical Preparations of Yalan"

V sb. Probl. analit. khimii (Collection of Works: Problems of Analytical Chemistry), Vol 2, Moscow, Nauka, 1972, pp 138-142 (from Referativnyy Zhurnal -- Khimiya, Svodnyy Tom, No 23(II), 1972, Abstract No 23N449 by T. A. Belyayeva)

Translation: The application of gas chromatography, spectroscopic, and titrimetric methods to determination of the basic substance in the oil emilsion and granulated preparations of yalan was evaluated. Using a thermal conductivity detector, the gas chromatography is carried out at the column temperature of 190°C, with the gas carrier (H₂) flow rate of 240 ml./min. Heat-insulating silanized brick is used the solid phase apiezon M with stearic acid is used as an immobile liquid phase. The relative error of determination does not exceed 3.4%. A study of the IR yalan spectra and of accompanying components indicated that the band 1412 cm⁻¹ can be used successfully. The titrimetric method is based on the hydrolysis of S-ethyl N-hexamethylenethiccartemate at 130°C in the presence of 85% orthophosphoric acid followed by determination of the inine formed with the acid-alkaline titration (0.1 N solution of EpSO₄ with methyl red indicator). The determination error does not exceed 1.6%.

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USSR UDC 547.241

NURTDINOV, S. Kh., ISMAGILOVA, N. M., MAMINA, A. I., ZYKOVA, T. V., and TSIVUNIN, V. S., Kazan' Chemical Technological Institute imeni S. M. Kirov

"Reaction of Trivalent Phosphorus Acid Chlorides With Esters of Pyruvic Acid"

Leningrad, Zhurnal Obshchey Khimii, Vol 43 (105), No 12, Dec 73, pp 2645-2648

Abstract: The reactions of trivalent phosphorus acid chlorides with pyruvic acid esters have been investigated; the reaction products are alkyl(aryl)-(1-chloro-1-carbalkoxy)ethylphosphinous acid chlorides. When diethylchloro-phosphine is reacted with ethylpyruvate, an oxide of diethyl(1-carboethoxy-ethyl)phosphine and diethylphosphinous acid chlorides are formed.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201920007-8"

SIMONOV, V. D., GAZIZOV, R. T., MAMINA, F. A., SHARIF'YANOVA, L. N.

"Chromatographic Determination of Cyclical Carbon Chlorides and Their Carbocyclical Derivatives"

Dokl. Neftikhim. Sektsii. B'ashkir. Resp. Pravl. Vses. Khim. O-va im. D. I. Mendeleyeva, [Works of Petrochemical Section, Vashkir Rebpulic Administration of All-Union Chemical Society imeni D. I. Mendeleyev], Vol 6, 1971, pp 320-323. (Translated from Referativnyy Zhur-al Khimiya, No 4, Moscow, 1972, Abstract No 4N652 by I. A. Revel'skiy).

Translation: A mixture of thymol, perchloromethylene-5-cyclopentene, hexacholofulvene, 2, 3, 4, 4-tetracholoro-5-dichloromethylene-2-cyclo-1-pentenone and 2, 3-dichloro-5-dichloromethylene-2-cyclo-1, 4-pentenedione is separated by GLC with a heat conductivity detector on a combined glass column ($160+20\times0.4$ cm), the first section of which contains silanized celite 545 with 15% polyethylene glycoladipate, while the second contains the same carrier with 10% type SE-30 methyl silicone, at a temperature of 190% and a He gas carrier rate of 90 ml per minute.

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"APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R002201920007-8

COUNTRY OF INFO--USSR

SOURCE--PROBL. ENDOKRINGL. 1970, 1611), 47-56

DATE PUBLISHED----70

SUBJECT AREAS -- BIDLOGICAL AND MEDICAL SCIENCES

TOPIC TAGS--URACIL, THYROID GLAND, THYROID HORMONE, BRAIN, MEDICAL EXPERIMENT

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--1986/1707

STEP NO--UR/0502/70/016/001/0047/0056

CIRC ACCESSION NO--APO102473

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--115EP70 2!2 023 CIRC ACCESSION NO--APO102473 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. INCREASED ACTIVITY OF THE SUPRAOPTIC NUCLEUS IN RATS DURING THE INITIAL PERIOD OF RESTITUTION CAFTER WITHDRAWAL OF 6, METHYLTHIOURACIL AT 10 MG-100 6 WITH THE FOOD DAILY FOR 20 DAYS) FACILITATED THE ONSET OF REBOUND PHENOMENON IN THE THYROTO GLAND AND INCREASED THE I CONCN. IN THE DESTROYED THYROTO PARENCHYMA. THE EFFECT OF THYROTROPIC HORMONE (TTH). WHOSE RELEASE INCREASED UNTIL THE 8TH DAY OF RESTITUTION. EVIDENTLY PROVIDED MAXIMAL REBOUND INCREASE IN THYROTROPIC FUNCTION AND FORMATION OF ICCUMATED THYROID HORMONES: THE INCREASED SECRETORY ACTIVITY OF THE SUPRAGPTIC CELLS COINCIDED WITH THE GREATEST INCREASE IN 2 HR I UPTAKE BY THE PARENCHYMA, SUGGESTING THAT VASOPRESSIN CAN STIMULATE THE I CONCG. THYROID MECHANISM AND PROMOTE THE ONSET OF REBOUND AND THAT THE FURTHER INCREASE IN THIS CHANGE, WHICH IS AT A PEAK ON THE 8TH DAY OF RESTITUTION. IS DETD. BY THYRUTROPIC HORMONE. my the teren

TITLE--FATIGUE TEST FOR BOILER STEEL IN AN ASYMMETRIC LUADING CYCLE -U-

AUTHOR-104)-KUDRYAVTSEV, I.V., BURMISTRDYA, L.N., MAMINUV, A.S., SHKANOV,

COUNTRY OF INFO--USSR

SOURCE--PROBL. PROCH. 1970, (2), 77-80

DATE PUBLISHED----70

SUBJECT AREAS--MATERIALS, METHODS AND EQUIPMENT

TOPIC TAGS--CRACK PROPAGATION, FATIGUE STRENGTH, TEST METHOD, STEAM BOILER/(U)166NM STEEL, (U)22K STEEL

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3006/1444

STEP NO--UR/3663/70/000/002/0077/0030

CIRC ACCESSION NO--APO135115

UNCLASS TELED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201920007-8"

2/2 027 UNCLASSIFIED PROCESSING DATE--27NUV70 CIRC ACCESSION NO--APOL35115 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE FATIGUE LIMIT OF STEELS LEGNM WITH A RISE IN THE MEAN LOADING CYCLE FALLS TO A GREATER EXTENT THAN THAT OF STEEL 22K. THE ESTABLISHED HIGH SENSITIVILTY OF THE FORHER STEEL IS APPARENTLY DUE TO A GREATER TENDENCY TO CRACK FORMATION DURING OPERATION OF THE BOILERS. WITH A FALL IN THE YIELD POINT AND STRENGTH LIMIT IN CERTAIN STEEL MELTS OF THE TYPE 22K THERE IS A FALL IN THEIR FATIGUE STRENGTH OVER THE ENTIRE RANGE OF MEAN LONDING CYCLES. AN INCREASE IN THE STRENGTH AND YIELD LIMITS OF STEEL LEGAM DOES NOT INCREASE THE FATIGUE LIMIT DURING ASYM. LOADING BY BOTLING WATER. USE IN FACTORY AND LAB. PRACTICE OF A DEVELOPED TEST METHOD FOR RAPIDLY CHECKING BOILER STEELS UNDER THESE CONDITIONS APPRIOXS. THE TEST TO REAL IT FACILITATES COMPARISON OF DIFFERENT SULLER STEELS FROM CONDITIONS. THEIR SENSITIVITY TO A SYM. LOADING. SUCH TESTS GAN BE RECOMMENDED FOR MAKING COMPONENTS FROM MATERIALS THAT ARE LESS SENSITIVE TO A SYM. LOADING IN BOILING WATER, WHICH IMPROVES BOILER OFFRATION. FACILITY: KAZAN. AVIATS. INST., KAZAN, USSR.

UNCLASSIFIED

USSR

KUCHKAROV, Ya. Kh., MAMIROV, U. E.

"Application of Topoligical Semifields to the Rule of the Repeated Logarithm for Markov Chains"

[Tr.] Tashkent. Politekhn. In-ta [(Norks) of Tashkent Polytechnical Institute], 1972, No 76, pp 163-166 (Translated from Referativnyy Zhurnal Kibernetika, No 4, 1973, Abstract No 4V52, by the authors).

Translation: The results produced in this work are a generalization of certain known theorems on the rule of the repeated logarithm for independent random quantities for the case of quantities $\{X_k, k=1, 2, \ldots\}$ forming a homogeneous Markov chain for which there is no second moment.

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WC 669.246

DRONOV, A. I., and MANKIN, G. I.

"Milling of NP-2 Nickel Hot-Rolled Strip"

Moscow, Tsvetnyye Metally, No 10, Oct 70, pp 72-74

Abstract: An investigation was made to establish the geometrical parameters of a cylindrical mill with inserted hard alloy teeth. Detailed descriptions are given of tests to determine its performance in milling MF-2 nickel. The strength of mills provided with VK4, VK6M, VK10, M, and T5K10 hard alloy teeth at cutting speeds of 297 and 377 m/min were compared in order to select the optimum mill material. The best results were obtained with T5K10 hard alloy teeth. The optimum cutting speed was found to be between 360-400 m/mir. Milling length and tool productivity increased when feeding was increased from 0.156 to 0.787 mm/tooth. A combination of 15° rake and 12° end relief angles yielded the best results. An economy of 2700 rubles per 1000 m of nickel was realized by using mills with hard alloy teeth instead of mills with high-speed steel teeth.

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KAPLER, R., NEKRASOV, L. I., IROSHNIKOVA, N. G., and MAMLEYEVA, N. A., Chemistry Faculty, Moscow State University imeni M. V. Lomonosov

"Paramagnetic Properties of Adsorption Layers of Chlorophyll a and b on Aluminum Oxide"

Moscow, Biofizika, Vol 16, No 1, Jan/Feb 71, pp 32-38

Abstract: Analysis of the electron paramagnetic resonance spectra of adsorbed chlorophyll a and b showed that when chlorophyll is adsorbed on aluminum hydroxide, the concentration of paramagnetic centers is 0.6 to 1.1% of the quantity of adsorbed molecules of the pigments. The number of paramagnetic centers was found to be related to the temperature, duration of light, and conditions under which the samples were kept (vacuum or air). The thermal energy required to activate the formation of unpaired electrons was determined. It is conjectured that the source of the electron paramagnetic resonance signal may be dimers formed from the strong inner overlapping of the pi-electrons of two adjacent chromatophores. The dimers are stabilized by the formation of a complex with

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USSR

BRAZHNIKOV, Ye. M.; KUZNETSOV, V. A.; MAMLINA, V. I.

"Functional Indexes of Perfusion With the Aid of Elevated Oxygen Pressure in an Oxygenerator-Air Pump (Experimental Investigation)"

Moscow, Voprosy Mediko-Biologicheskikh Issledovaniy. Materialy Konferentsii Molodykh Mauchnykh dapotnikov Hediko-Biologiches-kogo Fakul-teta (Aspects of Biomedical Research. Materials of a Conference of Young Scientific Workers of the Biomedical Faculty), Ministerstvo Zdravookhraneniya SSSR, 1970, 93 pp, pp 42-44

Abstract: A new perfusion method using a newly developed oxygenerator-air pump to be utilized in extracorporeal circulation
is described. The effect of the new method on hemodynamics,
gaseous composition, acid-base equilibrium, and biophysical
properties of the blood was also studied. The method was tested
on dogs. The pathomorphological effect of the method on the
internal organs was studied simultaneously. The tests were

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201920007-8"

BRAZHNIKOV, Ye. M.; et al, Voprosy Mediko-Biologicheskikh Issledovaniy. Materialy Konferentsii Molodykh Nauchnykh Rabotnikov Mediko-Biologicheskogo Fakul-teta, 1970, 93 pp, pp 42-44

conducted under conditions of complete extracorporeal circulation for one hour with a volume of circulating blood equal to 1.2-3.5 min, maintained as a result of the 100-170 mm Hg pressure difference between the oxygenerator and the arterial pressure. Arterial pressure during the perfusion process was within limits of 55-85 mm Hg, venous pressure -- 0-4,5 mm Hg, while peripheral resistance was considerably increased. Arterialization of the venous blood was carried out by the bubble method, with oxygen pressure maintained at 120-280 mm Hg higher than that of the atmosphere. Blood saturation with oxygen increased from 94 to 100%; that of the venous blood decreased from 68 to 64%; shifts in the acid-base balance were characterized by the development of moderate metabolic acidosis and respiratory alkalosis. Biophysical blood indexes were marked by a decline in hemoglobin and blood viscosity. No nonreversible changes in internal organs were observed. 2/2

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UNCLASSIFIED

PROCESSING DATE-- 300CY70

TITLE-GRANULATION OFF RUBBER MIXTURES IN A GRANULATING MACHINE OF THE

SHMGR 380-450 TYPE -U-

AUTHOR-102)-MAMON, L.I., BULEYKO, M.N.

COUNTRY OF INFO-USSR

M

SOURCE-KAUCH. REZINA 1970, 29131, 29-32

DATE PUBLISHED----70

SUBJECT AREAS-MATERIALS, MECH., IND., CIVIL AND MARINE ENGR

TOPIC TAGS—NATURAL RUBBER, SYNTHETIC RUBBER, VULCANIZATE, THIXOTROPTE, GRANULE FORMATION, RUBBER WORKING MACHINERY/(U)SKO SYNTHETIC RUBBER, (U)SHMGR GRANULATOR

CENTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PROXY REEL/FRAME—2000/0970

STEP NO--UR/0138/70/029/003/0029/0032

CIRC ACCESSION NO-APO124629

UNCLASSIFIED

APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201920007-8"

PROCESSING DATE--300C170 2/2 800 UNCLASSIFIED CIRC ACCESSION NO--AP0124629 ABSTRACT. SEVERAL RUBBER BLENDS, E.G. ABSTRACT/EXTRACT--(U) GP-O-NATURAL RUBBER (I) PLUS 30PERCENT SKD, I PLUS 80PERCENT SKMS-30ARKM-15. AND LOOPERCENT I WERE GRANULATED IN A SHMGR 380-450 GRANULATOR IN ORDER TO DET. THE PRESSURE DISTRIBUTION WITHIN THE GRANULAORT. THE PRESSURE CHANGES IN THE GRANULATOR VARIED EXPONENTIALLY. THE NUMBER OF PRESSURE DISTRIBUTION IN THE GRANULATOR DISK WAS DUE TO THEXOTROPIC FLOW AND PULSATION AND WAS PROPORTIONAL TO THE I CONTENT OF THE BLEND. AN EQUATION WAS DERIVED FOR CALCHAIGH STRESS EXERTED ON THE GRANULATOR FACILITY: DNEPROPETROVSK. KHIM.-TERHNOL: INST., HEAD. DNEPROPETROVSK, USSR. UNCLASSIFIED

. USSR

UDC: 620.17

VASIL'YEV, A. I., MAMCNOV, A. A., TSIBIN, G. I.

"Some Problems in Developing Precision Strain-Gauge Instruments for Measuring Force and Mass"

Tr. Sib. NII metrol. (Works of the Siberian Scientific Research Institute of Metrology), 1971, vyp. 13, pp 7-9 (from RZh-Mekhanika, No 7, Jul 72, Abstract No 7V1156)

Translation: It is shown that the material of the elastic pickup element of an electronic strain-gauge device for measuring mass or force must have high reproducibility of elastic deformation, i. e. it must have a minimum level of microplastic deformations. It is found that alloy steels widely used for making elastic elements correspond to this requirement in the normalization state. A design is described for a 10 000 kg electronic strain-gauge beam balance pickup in which the transducer converting deformation to an electric signal is made in the form of a three-electrode capacitor with two fixed working electrodes. The pickup is hermetically sealed and has a temperature compensation range of 20±15°C, which means that masses can be measured with a precision

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USSR

VASIL'YEV, A. I. et al., Tr. Sib. NII metrol., 1971, vyp. 13, pp 7-9

to 0.01% in a range from 1000 to 10000 kg at a distance of up to 50 m. The measurement system contains a device for correcting readings as a function of the local value of acceleration due to gravity. N. A. Petrova.

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201920007-8"

UDC: 621.317.334(088.8)

MAMONOV, A. A., GIRZHMAN, N. I., Novosibirsk Institute of Measures and Measuring Devices

"Measures With Low Inductances"

USSR Author's Certificate No 278792, filed 3 Jun 68, published 26 Nov 70 (from RZh-Radiotekhnika, No 6, Jun 71, Abstract No 6A261 P)

Translation: This Author's Certificate introduces measures with small inductance values made in the form of sections of coaxial and helical line. As a distinguishing feature of the patent, the range is extended in the direction of small inductances, and inductance variation is reduced while simultaneously improving measurement precision by forming the current terminals from the housing of the device and the inner electrode, while the voltage terminals are formed by a lateral opening in the housing and a rod which is in point contact with the inner electrode.

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UDC: 621.317

MAMONOV, A. A., GERBER, A. A.

"Measuring the Parameters of Low Mutual-Inductance Coils on Frequencies up to 10 MHz"

Dokl. Vses. nauchno-tekhn. konferentsii po radiotekhn. izmereniyem. T. 1 (Reports of the All-Union Scientific and Technical Conference on Radio Engineering Measurements. Vol. 1), Novosibirsk, 1970, pp 52-55 (from RZh-Radiotekhnika, No 1, Jan 71, Abstract No 1A371)

Translation: The authors present two measurement circuits which were studied at the SNIIM [expansion unknown]. One of these circuits is designed for low and extremely low mutual inductances (10⁻¹⁰-10⁻³ H), while the other (a bridge resonance circuit) is for measuring natual inductance (3·10⁻⁷-10⁻² H) and the tangent of the inductance phase angle (10⁻⁴-10⁻¹). Formulas are given for determining the measured quantities, and errors are noted. Two illustrations, bibliography of three titles. E. L.

1/1

UDC: 632.954:634.92

MANONOV N. I., Trans-Karpatian Forest Experimental Station

"Application of Herbicides for Exterminating Grass Obstructing Natural Reforestation"

Moscow, Khimiya v Sel'skom Khozynystve, no II, Nov 70, pp 42-43

Abstract: In the Carpathians, where forests are a major protection factor, natural reforestation has been impeded due to ample grass vegetation, specifically the swamp blackbarry making mirtus W. et M. Machanical means have failed to produce positive results. Described here are tests involving various herbicides. The solar solution of butyl other, and ammonical sulfamate have had no particular effects on beech sprouts; they may be of use only in forest areas without young forest trees. Solar oil, sodius and amine calts of 2,4-0 have had little effect on swimp blackberry even when applied in large doses and are therefore not recommended for use in the forest. DEOK, in an aqueous solution, sprayed in doses of 25-20 kg/ha of active ingredient in the summer or in the fall is affective agained swamp blackberry on plots with advanced beech growth. However, extreme caution is urget in large-scale application because of the hazard to humans and animals.

USSR

VDC 548.55 : 612.373.8

BUBNOV, M. M., BUZHINSKIY, I. M., DIANOV, Ye. M., MAMONOV, S. K., MIKHAYLOVA, L. I., and PROKHOROV, A. M., Academician, Physics Institute limeni P. N. Lebedev, Academy of Sciences USSR, Moscow

"Change in the Sign of the Thermal Lens of Glass Laser Rods With a Change in the Glass Thermooptical Constant"

Moscow, Doklady Akademii Nauk SSSR, Vol 205, No 3, 1972, pp 556-559

Abstract: The article describes results of a study of glasses with both positive and negative, constant thermooptical values. The focal distances of the thermal lens which forms during periodical laser rad pumping were measured by the autocollimation method. It was found that the thermal lens power decreases, as the thermooptical constant decreases, and changes sign at some constant thermooptical values. This correlation between lens power and the thermooptical constant of the glass occurs for glasses of various compositions (silicate, boron phosphate, phosphate). The mechanisms leading to lens formation are considered in order to explain this relation.

The authors thank S. I. KURGACHEV for his aid in the experiments. 1/1

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APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R002201920007-8"

S. K.: Mikhailova, L. M.: Prokhorov, A. M. (Uz. Inst. im. Lebedeva, Moscow, USSR). Dokl. Akad. Naul SSSA 1970, 190(3), 558-61 [Phys] (Russ). A new method to measure the thermooptical const. $W = \alpha(n-1) + \beta_{P,A}$ is given, where α is the coeff. of linear expansion of a glass, n refractive index, and $\delta_{T,A}$ the temp. coeff. of n. The measurement wis done in the region 10-45° for wavelengths 0.63 and 1.15 μ_r by using as a light source Ne-He laser LG-126. The temp. gradient, perpendicular to the light beam in the glass 10 × 60 × 130 mm, was produced by water baths, one of const. temp. at 10° and the other with temp. varying slowly 10-45°. A diaphragm with 2 holes (1 mm cross section) at 7 mm to sep. beams passing the glass through the zones with different temp., was used. By an optical system it was possible to follow the change of the optical path $\Delta P = \Delta N\lambda = LW\Delta T$, where ΔN is the no, of interference fringes shifted after the temp. gradient was formed in the glass,

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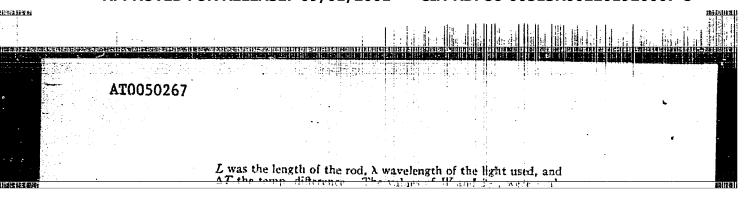
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CHEMICAL ABST. 5-70

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- 103301q Thermooptical characteristics of glanses activated by neodymium. Byzhinskii, I. M.; Dinnur, E. M.; Millimonium.





UDC 548.55:612.373.8

BUZHINSKIY, I. M., DIANOY, YE. M., MAMONOY, STOKE, MIKHAYLOVA, L., M., and PROKHOROV, A. M., Academician, Physics Institute imeni P. H. Lebedev of the Academy of Sciences USSR, Moscow

"Thermooptical Characteristic of Glasses Activated by Nepdymium"

Moscow, Doklady Akademii Nauk SSSR, Vol. 190, No. 3, 21 Jan 70, pp 558-561

Abstract: The problem of the thermal distortion of laser resonators associated with the development of glass lasers with a high energy density is discussed. It is noted that the active elements of neodymium-activated glass lasers have a high optical homogeneity; the change in the refractive index in a transverse cross section of the rod does not exceed 1·10⁻⁷ for a 2.5-cm rod. However, this high homogeneity in the glass does not occur during laser operation, due to a temperature gradient developed by nonuniform pumping; this gradient, in turn, leads to a gradient in the index of refraction. A new method is presented for measuring directly the thermooptical constant W of glasses, and values of W are given for the following neodymium-activated glasses: KGSS-3, KGSS-7, LGS-24-5, LGS-28-2, KGSS-46, LGS-36, and LGS-41. The LG-126 neon-helium laser was used as a source to

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BUZHINSKIY, I. M., et al, Doklady Akademii Nauk SSSR, Vol. 190, No. 3, 21 Jan 70, pp 558-561

lengths 0.63 and 1.15 μ . The minimum thermal distortion at this temperature was exhibited by glasses with a thermooptical constant in the limits (-10 - +10)·10⁻⁷/ $^{\circ}$ C. Measurements showed that glasses KGSS-3 and LGS-41 satisfy conditions for minimum thermal distortion.

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UNCLASSIFIED PROCESSING DATE-ZVNOV70
TITLE-DETERMINATION OF THE STERIC DRIENTATION OF THE HYDROXYL GROUPS OF
STEREGISOMERIC 4.ETHYNYL.4.PIPERIDINGLS AND THEIR ANALOGS ACCORDING TO
AUTHOR-(05)-MAMONDY, V.I., DVORYANTSEVA, G.G., SOKOLOVA, T.D., SYSOYEVA,
E.B., UNKOVSKIY, B.V.
COUNTRY OF INFO-USSR

SOURCE--ZZH. ORG. KHIM. 1970, 6[5], 1087-91

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--STEREOCHEMISTRY, IR SPECTRUM, PIPERDINE, HYDROXYL RADICAL, QUINOLINE, ALKYNE

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--3006/1266

STEP NO--UR/0366/70/005/005/1087/1091

CIRC ACCESSION NO--APO134940

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unakilalistemahilani/Adalamaanisi si bir xisi si Salama si sa 2/2 021 UNCLASSIFIED PROCESSING DATE--27NOV70 CIRC ACCESSION NO--APO134940 ABSTRACT/EXTRACT-- (U) GP-0- ABSTRACT. THE WAVE NO., THE INTENSITY, AND THE WIOTH AT MID POINT OF IR BANDS ASSIGNED TO AXIAL (ALPHA) OH GROUPS OF 2R,4R PRIME1, DISUBSTITUTED,4, HY DROXY, 1,5, DIMETHYLRIPERIDINES (1) WERE ALL HIGHER THAN THOSE ASSIGNED TO THE EQUATORIAL (EPSILON) OH E.G. I (R EQUALS H, R PRIME! EQUALS C TRIPLE BOND CH) HAD AN ALPHA DH BAND AT 3619 CM PRIME NEGATIVEL AND AN EPSILON OH BAND AT 3611 CM PRIME NEGATIVEL. SIMILAR DIFFERENCES WERE FOUND WITH OTHER I IR AND R PRIME! GIVEN): ME, C TRIPLE BOND CH; H, ET; AND ME, ET. ALPHA EPSILON OH BAND DIFFERENCES EXIST IN 4. (R. SUBSTITUTED). ANALOGOUS 4, HYDROXY, 2, METHYLDECAHYDROQUINOLINES (R IS ET OR C TRIPLE BOND CH) . FACILITY: MOSK. INST. TONKOT KHIM. TEKHNOL. IM. LOMONOSOVA, MOSCOW, UNCLASSIFIED

LDC 547.26 118

MIZRAKH, L. I., YAKOVELEV, YUKHNO, YE. H., and MAMONOV, V. I.

"Phosphorus-containing Derivatives of Isothiurones. II. Cleavage of Dioxaphospholane and Dioxaphosphorenane Rings by Thiccarbanide"

Leningrad, Zhurnal Obshchey Khimii, Vol 42(104), No 8, 1972, pp 1700-1705

Abstract: Thiocarbamide (TCA) will react with 1,3,2-dioxaphospholane by

0 + H₂N-C-IH₂ - POCH₂CH₂S-C + NH₂
0 R NH₂
0 R NH₂
0 R NH₂

The R exerts a significant influence on the ease of alkylation, in the order CICH₂ > OC₂H₅ > CH₃. 4-Methyl-1,3,2-dioxaphospholanes and 2-(formamidentio)-ethyl esters of phosphorous acid react with TCA in an analagous manner. Seven compounds were prepared by TCA reactions. These were characterized by elemental composition and IR, UV, and NMR spectra.

- 23 -

1/2 022 UNCLASSIFTED TITLE--IR ABSORPTION SPECTRA AND SPATIAL STRUCTURE OF STERO ISOMERIC

PROCESSING DATE-+020CT70

1.2.5.TRINETHYL.4.HYDRDXY.4.PEPERIDYLCARBINGLS +U-

AUTHOR-(05)-MAMONOV. V.I., DVDRYANTSEVA, G.G., SHILLAYEV, N.P., SYDYEVA.

COUNTRY OF INFO--USSR

SOURCE--KHIM. GETEROTSIKL. SOEDIN. 1970 (21 173-9

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--IR SPECTRUM, MOLECULAR STRUCTURE, HYDROXYL RADICAL. HETEROCYCLIC NITROGEN COMPOUND. HYDROGEN BONDING

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PRUXY RELL/FRAME--1992/1503

STEP NG--UR/0409/70/000/002/0173/0179

CIRC ACCESSION NO--APOL12497

UNCLASSIFIED

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UDC: 532.526.4.001.5

ALIMPIYEV, A. I., MAMONOV, V. N., MIRONOV, B. P., Novosibirsk

"Energy Spectra of Velocity Pulsations in a Turbulent Boundary Layer on a Permeable Plate"

Novosibirsk, Zhurnal Prikladnoy Mekhaniki i Tekhnicheskoy Fiziki, No 3, May/Jun 73, pp 115-119

Abstract: The paper gives the results of measurements of pulsations of a turbulent boundary layer on a flat permeable plate over a range of variation of the blow-in parameter from 0 to 20. It is shown that in the case of supercritical blow-in there is a zone close to the surface in which the energy spectra of velocity pulsations do not change with increasing distance from the surface, and differ from the spectra in the main body of the boundary layer.

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Measuring, Testing, Calibrating

USSR

UDC \$21.317.757:681.327.2

GOLENISHCHEV, I. A., YELDASHEV, V. V., and MAMONOV, Ye. I.

"Arrangement for the Derivation of Information From Multichannel Analyzers"

Tr. VNII Radiats. Tekhn. [Works of the All-Union Scientific Research Institute of Radiation Technology], 1972, No 7, pp 188-195 (from Referativnyy Zhurnal, No 11, Nov 72. 32. Metrologiya i Izmeritel naya Tekhnika. Single Issue. Abstract No 11,32.54)

Translation: The arrangement for derivation of information from a multichannel analyzer makes it possible to set free the "demory" of the pulse analyzer (derivation of 1024 channels takes approximately 45 sec when using the PL-150 punched tape) and to carry out the processing of information with the help of a digital computer. Besides that, the described arrangement can enter into the measuring complex in the capacity of additional channel of information derivation. An experimental model of such arrangement was adjusted and has passed laboratory tests in the system of direct information transmission in digital computer. The characteristic of information carrier, the block diagram, and the design of the arrangement are presented. Four illustrations, one table, six bibliographical references.

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- USSR

WDC 669.295.539.292

KOLACHEV, B. A., MAMONOVA, F. S., LYASOTSKAYA, V. S., and VEDNEVA, L. S., Moscow Aviation Technological Institute. Chair of the Science of Hetals and Hot Working of Metals

"Investigating the Structure and Properties of Annealed Alloys of Ti-Mo System"

Ordzhonikidze, Izvestiya Vysshikh Uchebnykh Zavedeniy, Tsvetnaya Metallurgiya, No 3, 1973, pp 120-124

Abstract: A study was made of the rules of changing properties and phase composition of titanium-molybdenum alloys, depending on molybdenum content. The investigated alloys were produced from TG-100 sponge with additions of 0.06% Fe, 0.02% Si, 0.04% 02, and 0.03% c. The alloys were annealed by heating to 950°, with subsequent soaking for one hour and cooling to 800° and 750° in air and 700° and 650° in water. The influence of No-content on the differently annealed alloys and their mechanical properties is demonstrated. Titanium alloys and their mechanical properties is demonstrated. Titanium alloys with 6.8, 8.6, 11.4, and 13% No annealed at 800, 750, 700, and 650° C, respectively, with air cooling have the highest strength. The two-phase Ti+11.4% No alloy with very fine (\(\mathref{C} \) + \(\beta \) -structure without \(\omega \) -phase possesses maximum strength

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